

**ACOT11 Antibody (C-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP10130b****Specification**

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**ACOT11 Antibody (C-term) - Product Information**

Application	FC, IHC-P, WB,E
Primary Accession	<a href="#">Q8WXI4</a>
Other Accession	<a href="#">NP_056362.1</a> , <a href="#">NP_671517.1</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	68492
Antigen Region	549-575

**ACOT11 Antibody (C-term) - Additional Information****Gene ID** 26027**Other Names**

Acyl-coenzyme A thioesterase 11, Acyl-CoA thioesterase 11, 312-, Acyl-CoA thioester hydrolase 11, Adipose-associated thioesterase, Brown fat-inducible thioesterase, BFIT, ACOT11, BFIT, KIAA0707, THEA

**Target/Specificity**

This ACOT11 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 549-575 amino acids from the C-terminal region of human ACOT11.

**Dilution**

FC~~1:10~50

IHC-P~~1:50~100

WB~~1:1000

E~~Use at an assay dependent concentration.

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

ACOT11 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**ACOT11 Antibody (C-term) - Protein Information**

**Name** ACOT11

**Synonyms** BFIT, KIAA0707, THEA

**Function** Has an acyl-CoA thioesterase activity with a preference for the long chain fatty acyl-CoA thioesters hexadecanoyl-CoA/palmitoyl-CoA and tetradecanoyl-CoA/myristoyl-CoA which are the main substrates in the mitochondrial beta-oxidation pathway.

**Cellular Location**

Mitochondrion matrix. Cytoplasm

**Tissue Location**

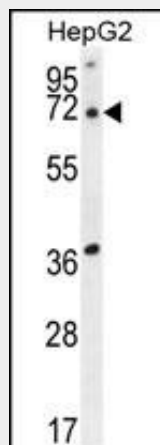
Isoform 1 is predominantly expressed in skeletal muscle, liver, testis, stomach, spleen, lung and brain. Isoform 2 is predominantly expressed in kidney, uterus, hibernoma and white adipose tissue

**ACOT11 Antibody (C-term) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

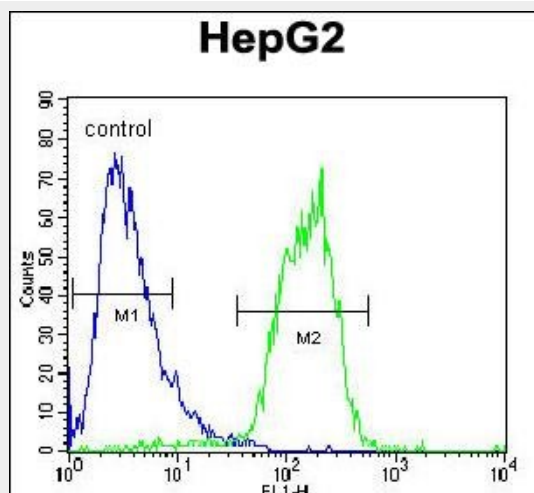
**ACOT11 Antibody (C-term) - Images**



ACOT11 Antibody (C-term) (Cat. #AP10130b) western blot analysis in HepG2 cell line lysates (35ug/lane). This demonstrates the ACOT11 antibody detected the ACOT11 protein (arrow).



ACOT11 Antibody (C-term) (Cat. #AP10130b) immunohistochemistry analysis in formalin fixed and paraffin embedded human skeletal muscle followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the ACOT11 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.



ACOT11 Antibody (C-term) (Cat. #AP10130b) flow cytometric analysis of HepG2 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

#### **ACOT11 Antibody (C-term) - Background**

This gene encodes a member of the acyl-CoA thioesterase family which catalyse the conversion of activated fatty acids to the corresponding non-esterified fatty acid and coenzyme A. Expression of a mouse homolog in brown adipose tissue is induced by low temperatures and repressed by warm temperatures. Higher levels of expression of the mouse homolog has been found in obesity-resistant mice compared with obesity-prone mice, suggesting a role of acyl-CoA thioesterase 11 in obesity. Alternative splicing results in transcript variants.

#### **ACOT11 Antibody (C-term) - References**

Kirkby, B., et al. Prog. Lipid Res. 49(4):366-377(2010)  
Hunt, M.C., et al. J. Lipid Res. 46(9):2029-2032(2005)  
Adams, S.H., et al. Biochem. J. 360 (PT 1), 135-142 (2001) :